

Appl. No. 10/581,415
Amdt. dated July 6, 2009
Reply to Final office action of May 1, 2009

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-9. (Canceled)

10. (Currently amended) In an inlet valve assembly of a high-pressure fuel pump comprising a valve element disposed in a valve chamber and a fluid conduit adjoining the valve chamber on the upstream side, the valve element alternatively opening and closing the fluid conduit on the upstream side of the valve chamber, the improvement wherein the fluid conduit has a substantially constant width and is embodied such that a rotation (swirl) about the longitudinal axis of the fluid conduit is impressed on the fluid stream that flows toward the valve chamber, without a constriction of this fluid stream being produced.

11. (Previously presented) The valve assembly as recited in claim 10, wherein the fluid conduit comprises a first conduit portion and a second conduit portion adjoining the first conduit portion, the longitudinal axes of the first and second conduit portions being at an angle < 180° to one another, and the longitudinal axis of the first conduit portion being laterally offset from the longitudinal axis of the second conduit portion.

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12. **(Previously presented)** The valve assembly as recited in claim 11, wherein the longitudinal axes of the first and second conduit portions are at least approximately at a right angle to one another.

13. **(Currently amended)** The valve assembly as recited in claim 10, further comprising a ball ~~or a cone element~~ as the valve element.

14. **(Currently amended)** The valve assembly as recited in claim 11, further comprising a ball ~~or a cone element~~ as the valve element.

15. **(Currently amended)** The valve assembly as recited in claim 12, further comprising a ball ~~or a cone element~~ as the valve element.

16. **(Previously presented)** The valve assembly as recited in claim 11, wherein the first and second conduit portions, in cross section, have at least approximately the same radius; and wherein the lateral offset of the longitudinal axes is greater than the radius.

17. **(Previously presented)** The valve assembly as recited in claim 12, wherein the first and second conduit portions, in cross section, have at least approximately the same radius; and wherein the lateral offset of the longitudinal axes is greater than the radius.

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18. **(Currently amended)** The valve assembly as recited in claim 14, ~~claim 13,~~ wherein the first and second conduit portions, in cross section, have at least approximately the same radius; and wherein the lateral offset of the longitudinal axes is greater than the radius.

19. **(Previously presented)** The valve assembly as recited in claim 11, further comprising a transition region between the first conduit portion and the second conduit portion, the transition region being machined by means of electrochemical removal of material.

20. **(Previously presented)** The valve assembly as recited in claim 12, further comprising a transition region between the first conduit portion and the second conduit portion, the transition region being machined by means of electrochemical removal of material.

21. **(Currently amended)** The valve assembly as recited in claim 14, ~~claim 13,~~ further comprising a transition region between the first conduit portion and the second conduit portion, the transition region being machined by means of electrochemical removal of material.

22. **(Previously presented)** The valve assembly as recited in claim 16, further comprising a transition region between the first conduit portion and the second conduit portion, the transition region being machined by means of electrochemical removal of material .

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23. **(Previously presented)** The valve assembly as recited in claim 19, wherein the transition region comprises a wall that is curved from the first conduit portion to the second conduit portion.

24. **(Previously presented)** The valve assembly as recited in claim 20, wherein the transition region comprises a wall that is curved from the first conduit portion to the second conduit portion.

25. **(Previously presented)** The valve assembly as recited in claim 21, wherein the transition region comprises a wall that is curved from the first conduit portion to the second conduit portion.

26. **(Previously presented)** The valve assembly as recited in claim 22, wherein the transition region comprises a wall that is curved from the first conduit portion to the second conduit portion.

27. **(Previously presented)** The valve assembly as recited in claim 11, wherein the first conduit portion extends no more than an axially insignificantly distance past the second conduit portion.

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28. **(Currently amended)** The valve assembly as recited in claim 14, -claim 10-, wherein the longitudinal axis of the first conduit portion and the longitudinal axis of the second conduit portion form an angle > 90°.

29. **(Previously presented)** The valve assembly as recited in claim 11, wherein the longitudinal axis of the first conduit portion and the longitudinal axis of the second conduit portion form an angle > 90°.